

## Hardened PoE Switch

WI-PS206GF-I | WI-PS212GF-I

Hardware Version: V2



### Overview

Wi-Tek hardened PoE switch provide 4/8 100Mbps PoE ports, 1 1000Mbps Ethernet port and 1 1000Mbps SFP slot. Professional design providing a flexible, easy to use and reliable industrial network solution. Redundant power design with polarity reverse/over-current protection, guarantee the safe power supply. Solid shell, wide operation temperature from  $-30^{\circ}\text{C}$  to  $65^{\circ}\text{C}$  design, ensure its stable and reliable operation even in harsh environment. It is the best choice for outdoor CCTV project, wireless coverage project and the project of harsh application scenarios such as factory and park.

### Features

#### Gigabit Uplink Interfaces Design

WI-PS206GF-I:

4x10/100 Base-TX PoE ports with 1x1000 Base-T RJ45 port and 1x1000 Base-X SFP slot

WI-PS212GF-I: 8x10/100 Base-TX PoE ports with 1x1000 Base-T RJ45 port and 1x1000 Base-X SFP slot

#### $-30\sim 65^{\circ}\text{C}$ Operating Temperature

$-30\sim 65^{\circ}\text{C}$  operating temperature design, makes it meet the requirement of harsh application environment.

#### High Level Protection Design

6kV surge immunity, 15kV air discharge and 8kV contact discharge ESD protection design make it an ideal choice for outdoor application scenario.

#### Redundant DC Power Input Design

Support redundant 48–57V DC power input, provide reliable alternative power access solutions.

#### Multiple Smart DIP Mode

1. VLAN Mode: All downlink ports are isolated from each other, but can communicate with uplink ports.
2. PoE Watchdog Mode: All PoE ports enable PoE watchdog, which can detect and reboot the offline compliant PoE powered devices.
3. Extend Mode: The transmission distance of PoE ports can be up to 250m, but the rate is limited to 10Mbps.



# Specifications

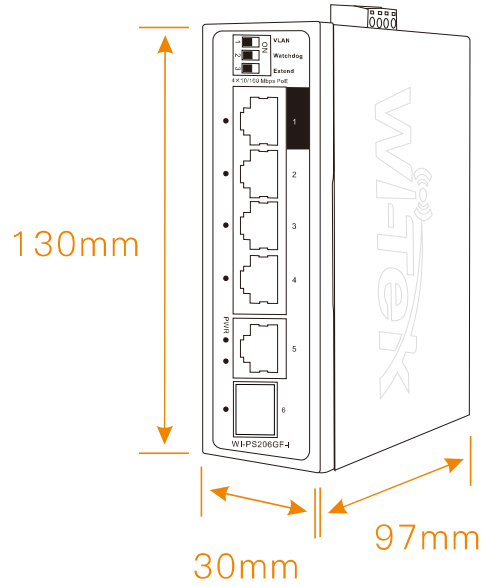
| Model                   | WI-PS206GF-I                                                                  | WI-PS212GF-I                                                                                                    |
|-------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Hardware Features       |                                                                               |                                                                                                                 |
| Hardware Version        | V2                                                                            | V2                                                                                                              |
| Interfaces              |                                                                               |                                                                                                                 |
| Downlink Ports          | 4 x 10/100Mbps RJ45 ports                                                     | 8 x 10/100Mbps RJ45 ports                                                                                       |
| Uplink Ports            | 1 x 1000Mbps Ethernet port<br>1 x 1000Mbps SFP Slot                           |                                                                                                                 |
| PoE                     |                                                                               |                                                                                                                 |
| PoE Port                | Port 1–4                                                                      | Port 1–8                                                                                                        |
| PoE Standard            | Port 1: 802.3af/at/bt<br>Port 2–4: 802.3af/at                                 | Port 1–2: 802.3af/at/bt<br>Port 3–8: 802.3af/at                                                                 |
| PoE Power Supply Type   | Mid–span and End–span                                                         |                                                                                                                 |
| PoE Pin Assignment      | 802.3af/at: 1/2(+), 3/6(–)<br>802.3af/at/bt: 1/2(+), 3/6(–) or 4/5(+), 7/8(–) |                                                                                                                 |
| PoE Power               | 90W max for port 1,<br>30W max for port 2–4,<br>55W Max. (PoE power budget)   | 90W max for port 1–2,<br>30W max for port 3–8,<br>110 W Max. (PoE power budget)                                 |
| Switch Property         |                                                                               |                                                                                                                 |
| Standards and Protocols | IEEE 802.3u Fast Ethernet                                                     |                                                                                                                 |
|                         | IEEE 802.3ab Gigabit Ethernet                                                 |                                                                                                                 |
|                         | IEEE 802.3x Full–Duplex Flow Control                                          |                                                                                                                 |
|                         | IEEE 802.3az Energy Efficient Ethernet                                        |                                                                                                                 |
|                         | IEEE 802.3af Power–Over–Ethernet                                              |                                                                                                                 |
|                         | IEEE 802.3at Power Over Ethernet Plus                                         |                                                                                                                 |
|                         | IEEE 802.3bt Power Over Ethernet Plus Plus                                    |                                                                                                                 |
| Forwarding Mode         | Store and Forward                                                             |                                                                                                                 |
| Switching Capacity      | 4.8 Gbps                                                                      | 5.6 Gbps                                                                                                        |
| Packet Forwarding Rate  | 3.57 Mpps                                                                     | 14.9 Mpps                                                                                                       |
| MAC Address Table       | 8 k                                                                           |                                                                                                                 |
| Jumbo Frame             | 9.6Kbytes                                                                     |                                                                                                                 |
| Power Supply            |                                                                               |                                                                                                                 |
| Input Power             | DC 52V 1.25A 65W                                                              | DC 52V 2.5A 130W (When the operating temperature is greater than 45°C, the power supply power is less than 96W) |

|                          |                         |                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                      |
|--------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Consumption        |                         | Idle: 5W                                                                                                                                                                                                                                                                                                                                                      | Idle: 10W                                                                                                                                                                            |
| Physical Characteristics |                         |                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                      |
| LED Indicators           |                         | <b>PWR</b><br>On: the device power on is normal<br>Off: the device is power off or failed                                                                                                                                                                                                                                                                     | <b>PWR</b><br>On: the device power on is normal<br>Off: the device is power off or failed                                                                                            |
|                          |                         | <b>Link</b><br>On: port link up<br>Off: port link down<br>Blinking: data on TX/RX<br><b>5, 6(Uplink Port)</b><br>On: port link up<br>Off: port link down<br>Blinking: data on TX/RX                                                                                                                                                                           | <b>Link</b><br>On: port link up<br>Off: port link down<br>Blinking: data on TX/RX<br><b>9, 10(Uplink Port)</b><br>On: port link up<br>Off: port link down<br>Blinking: data on TX/RX |
| Buttons                  |                         | <b>VLAN</b><br>All downlink ports are isolated from each other, but can communicate with uplink ports.<br><b>Watchdog</b><br>All PoE ports enable PoE watchdog function,whichcan detect and reboot the offline compliant PoE powered devices.<br><b>Extend</b><br>The transmission distance of PoE ports can be up to 250m,but the rate is limited to 10Mbps. |                                                                                                                                                                                      |
| Fan Quantity             |                         | Fanless                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                      |
| Switch Dimensions        |                         | 130*97*30 mm                                                                                                                                                                                                                                                                                                                                                  | 149*118*44 mm                                                                                                                                                                        |
| Package Dimensions       |                         | 249*208*87 mm                                                                                                                                                                                                                                                                                                                                                 | 249*208*87 mm                                                                                                                                                                        |
| Weight                   | Net Weight: 0.45kg      |                                                                                                                                                                                                                                                                                                                                                               | Net Weight: 0.65 kg                                                                                                                                                                  |
|                          | Package Weight: 1.10 kg |                                                                                                                                                                                                                                                                                                                                                               | Package Weight: 1.30kg                                                                                                                                                               |
| Installation             |                         | Desktop, DIN–rail, Wall–mount                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                      |
| Environmental            |                         |                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                      |
| Reliability              | Surge Immunity          | IEC 61000–4–5<br>Common mode 4kV<br>Differential mode 2kV                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                      |
|                          | ESD Protection          | IEC 61000–4–2<br>Contact discharge 15kV<br>Air discharge 8kV                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                      |

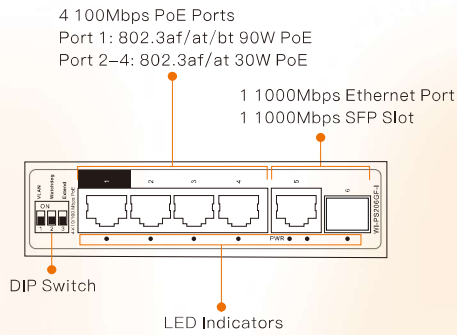
|                       |                            |
|-----------------------|----------------------------|
| Operating Temperature | −30 ~ 65°C(−22°F to 149°F) |
| Storage Temperature   | −40 ~ 85°C(−40°F to 185°F) |
| Operating Humidity    | 5% ~ 95 % (non−condensing) |
| Certification         |                            |
| Certification         | CE, FCC, RoHS, UKCA, RCM   |

WI-PS206GF-I

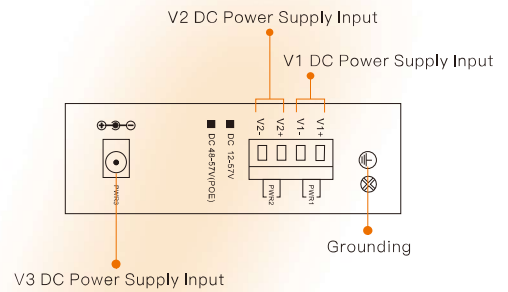
Dimensions (mm)



Front Panel

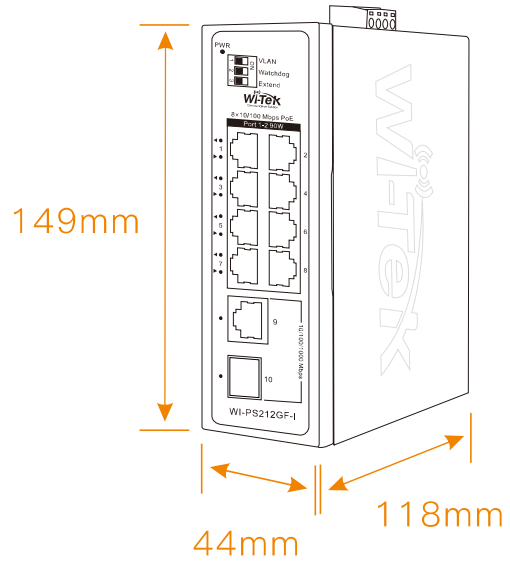


Side Panel

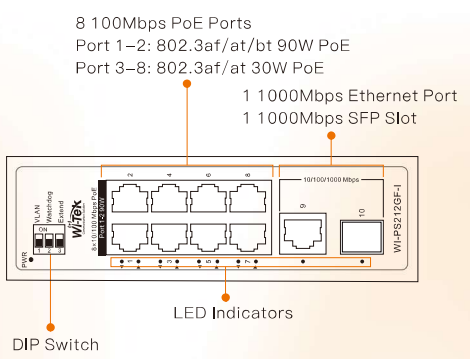


WI-PS212GF-I

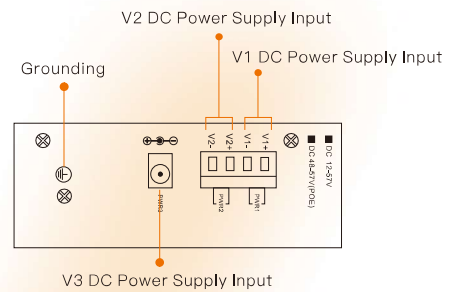
Dimensions (mm)



Front Panel



Side Panel



# Package Contents

Welcome to order our products. After purchasing, you will receive:

| Items                                                          | Quantity |
|----------------------------------------------------------------|----------|
| Switch                                                         | 1 pcs    |
| Power adapter                                                  | 1 pcs    |
| Wall-mount Accessory(expansion screw × 2; screw × 6; ears × 1) | 1 pcs    |
| Quick Installation Guide                                       | 1 pcs    |



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Technical Support



Cloud Management



Company Website